



FH₁W-S

iOS Programmierung

(mit Swift)

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#FHWSSwift

Agenda

- 1. Introduction Organisatorisches
- 2. First iOS-Project Hello World, First iOS-Project Still Hello World (now with Code 👄)
- 3. Swift, Wait!, What about Objective-C?, Why Swift?
- 4. A (not so) Quick Tour
- 5. Documentation
- 6. The basics iOS Architecture & more
- 7. User Interfaces View Controller, Auto Layout & Size Classes
- 8. Storyboard & Segues
- 9. Tables & NavigationController
- 10. TabBarController
- 11. Notifications
- 12. PickerViews
- 13. Touches, Gestures, 3D Touch, Peek & Pop
- 14. ScrollView & StackViews
- 15. Networking JSON & Dependency Managers
- 16. WebKit
- 17. Maps
- 18. Storage & Data persistency NSUserDefaults, NSKeyedArchiver & Core Data
- 19. **ObjC**

Notifications NSNotificationCenter, Notifications & Observers

Notifications don't mix up with User Notifications, these are for the programmer :-)

NSNotificationCenter

- "The app has become active"
- "A WiFi network has been found"
- "The device has been rotated"
- "The app will quit"
- "The device has changed location"
- "The app is out of memory"

This one everybody has seen:

```
func application(
    application: UIApplication,
    didFinishLaunchingWithOptions launchOptions: [NSObject: AnyObject]?) -> Bool {
    // Override point for customization after application launch.
    return true
}
```

Observers

Objects that react to events when notified

"Notify me when the device rotates"

NSNotificationCenter

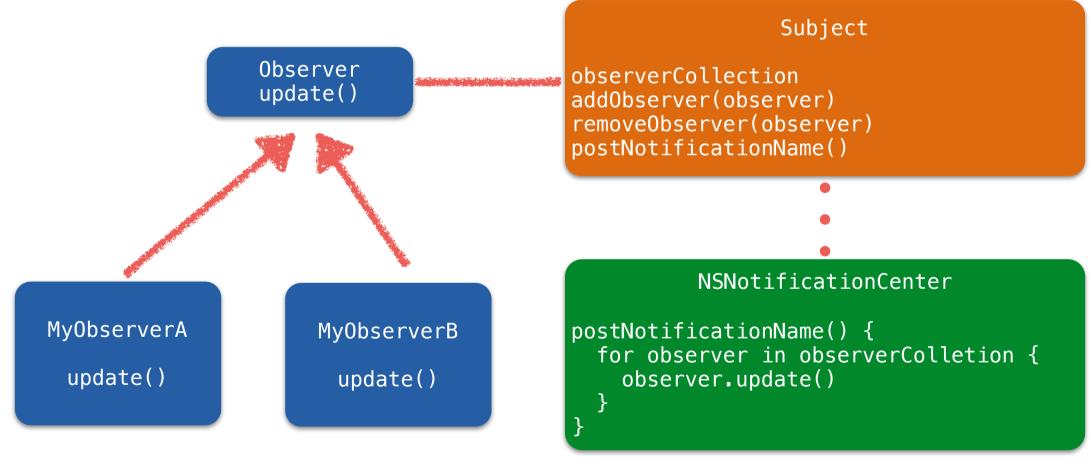


"OK, you're the observer, I'll notify you"

Our App

Observer Pattern

• A common software design pattern



Observer Re-/Deregistration

Telling NSNotificationCenter when to notify an object

Good people deregister the observer, if not needed anymore (deinit, viewDidUnload

```
let n = NSNotificationCenter.defaultCenter()
n.removeObserver(observer)
// alternative:
//Remove all notifications from being observed
n.removeObserver(self)

MyObserver

MyOb
```

Post Notifications

Telling NSNotificationCenter when to notify an object

```
let n = NSNotificationCenter.defaultCenter()
d.postNotificationName("theNameOfTheNotification", object: nil)
```

And receive them

